

M 5.4, 76 km E of Cruz Bay, U.S. Virgin Islands

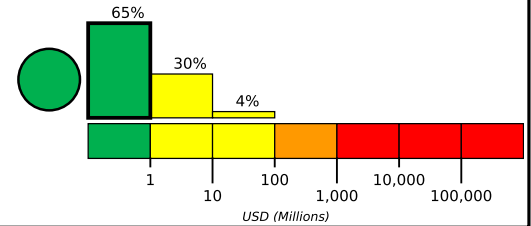
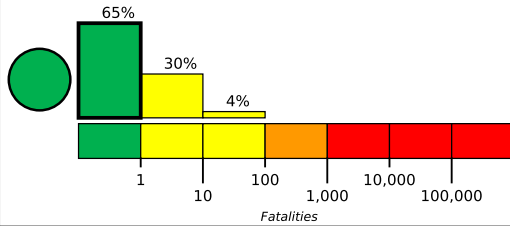
Origin Time: 2021-01-24 23:21:41 UTC (Sun 19:21:41 local)
Location: 18.2516° N 64.0708° W Depth: 94.0 km

Created: 2 hours, 3 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

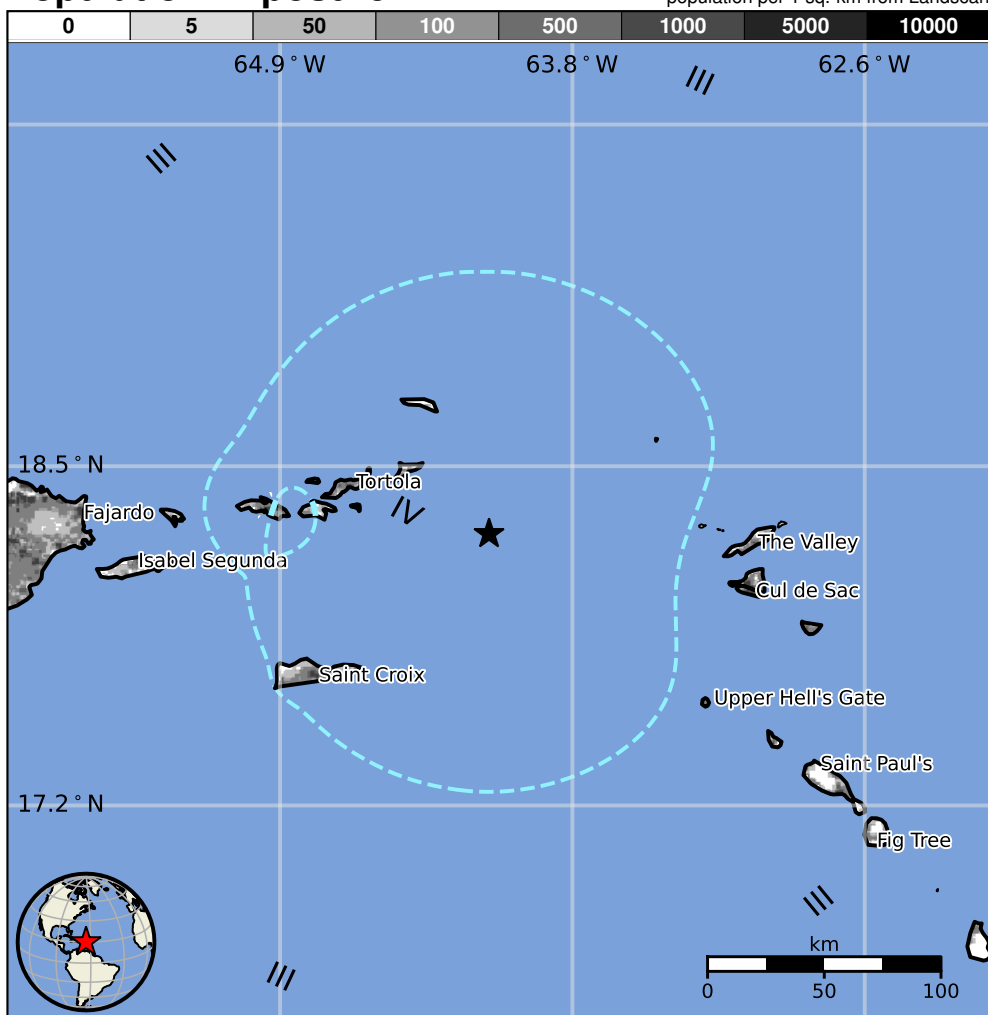


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	589k*	121k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-03-16	222	6.4	VII(6k)	0
1974-10-08	243	7.5	IX(45k)	0
2004-11-21	381	6.3	VII(3k)	1

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Road Town	8k
IV	Saint Croix	51k
IV	Charlotte Amalie	20k
III	Culebra	1k
III	Esperanza	1k
III	Isabel Segunda	9k
III	Fajardo	34k
III	Basseterre	13k
III	Rio Grande	13k
III	Humacao	20k
III	Juncos	9k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/pr2021024007#pager>

bold cities appear on map.

(k = x1000)

Event ID: pr2021024007